

# KY-22 Kentucky River Bridge

*Gratz, Kentucky*

*“The post tensioned concrete construction provided Haydon Bridge and the KY Transportation Cabinet, a cost saving alternate to the as bid, steel plate girder construction.”*

~Thomas S. Haydon III  
Haydon Bridge Co.

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Prestress Services Industries supplied these complex prestressed and post-tensioned girders for the crossing of the Kentucky River near Gratz, KY. As part of a value-engineering package, Janssen & Spaans Engineering was brought in to redesign the steel girder bridge as a precast/prestressed structure saving the Kentucky Department of Highways nearly \$1,000,000. The redesigned bridge has spans of 175'; 2 at 200' and a record setting span of 325' which crosses the river.

The bulb-tee pier girders were 135' long by 9' to 16' deep along with 185' long by 9' tall drop in girders to make up the 325' span. With the size and weights nearing 250 tons, these beams were delivered to the jobsite from PSI's production and state of the art barge loading facility in Melbourne, KY. The remaining spans were transported to the jobsite by overland truck.



Engineer: **Janssen & Spaans Engineering**  
Contractor: **Haydon Bridge Company**  
Erector: **C.J. Mahan Construction Company**  
Transportation: **Aquarius Marine Company (barge)**

